

Fig. 1

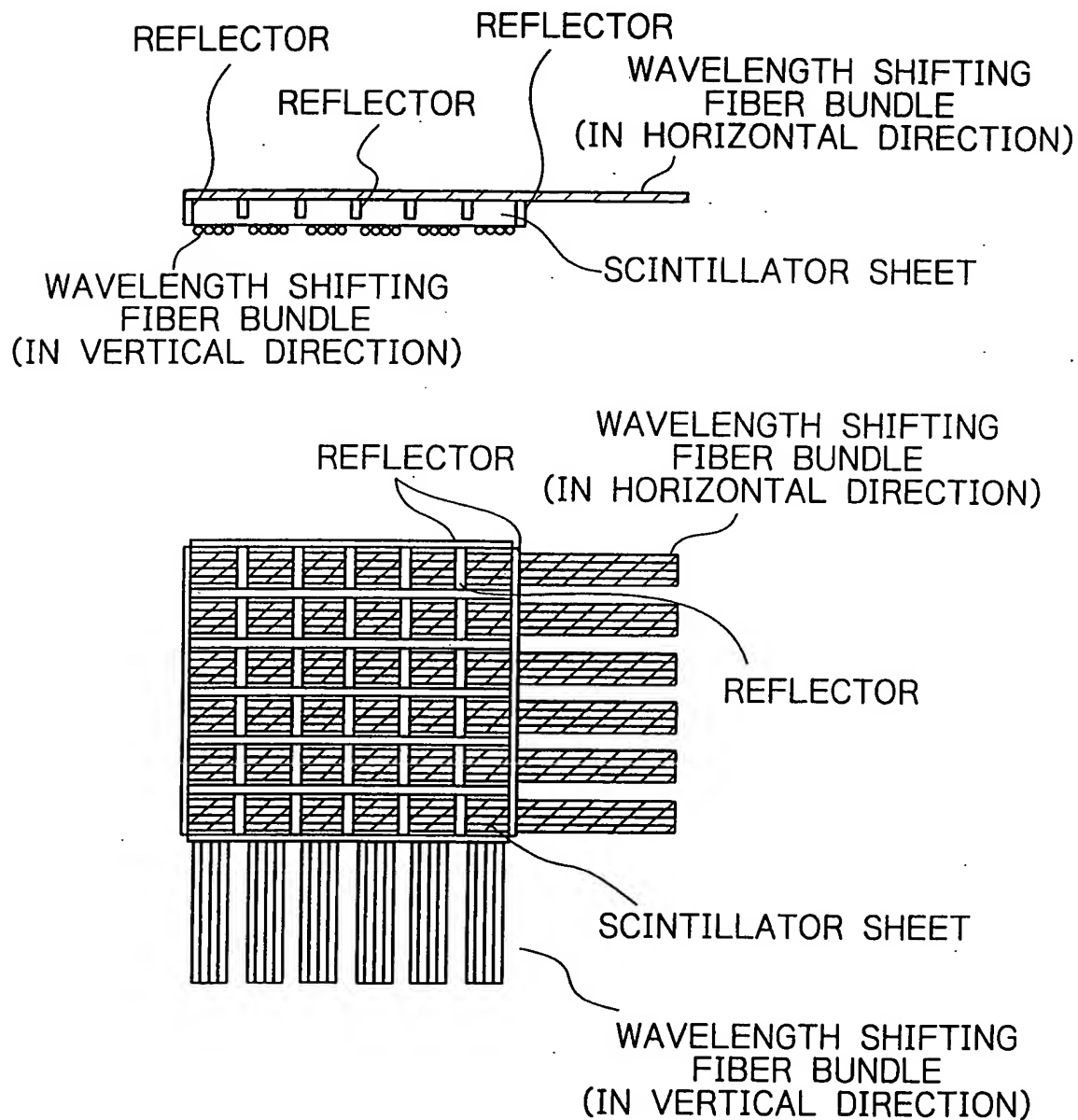


Fig. 2

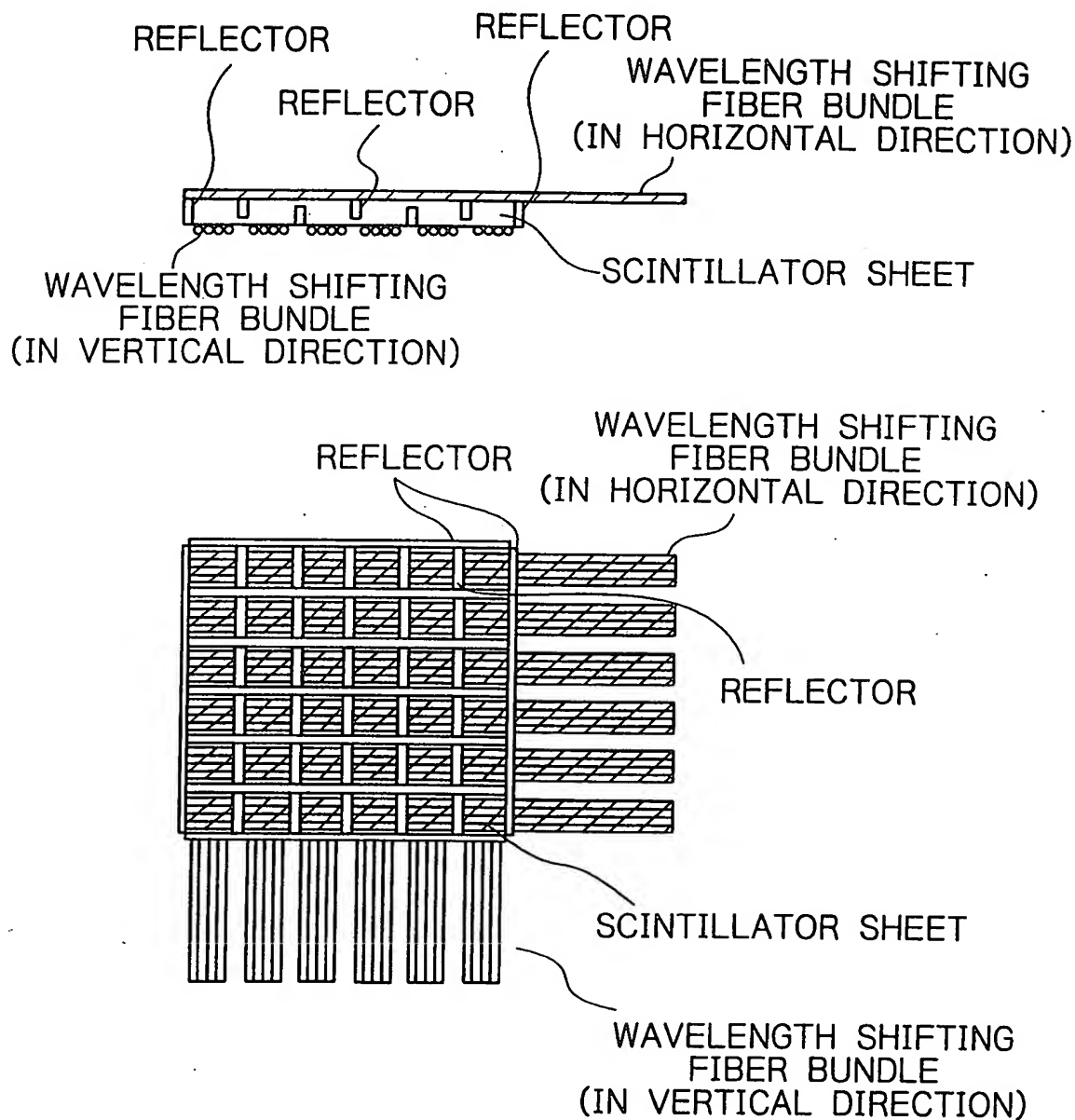


Fig. 3

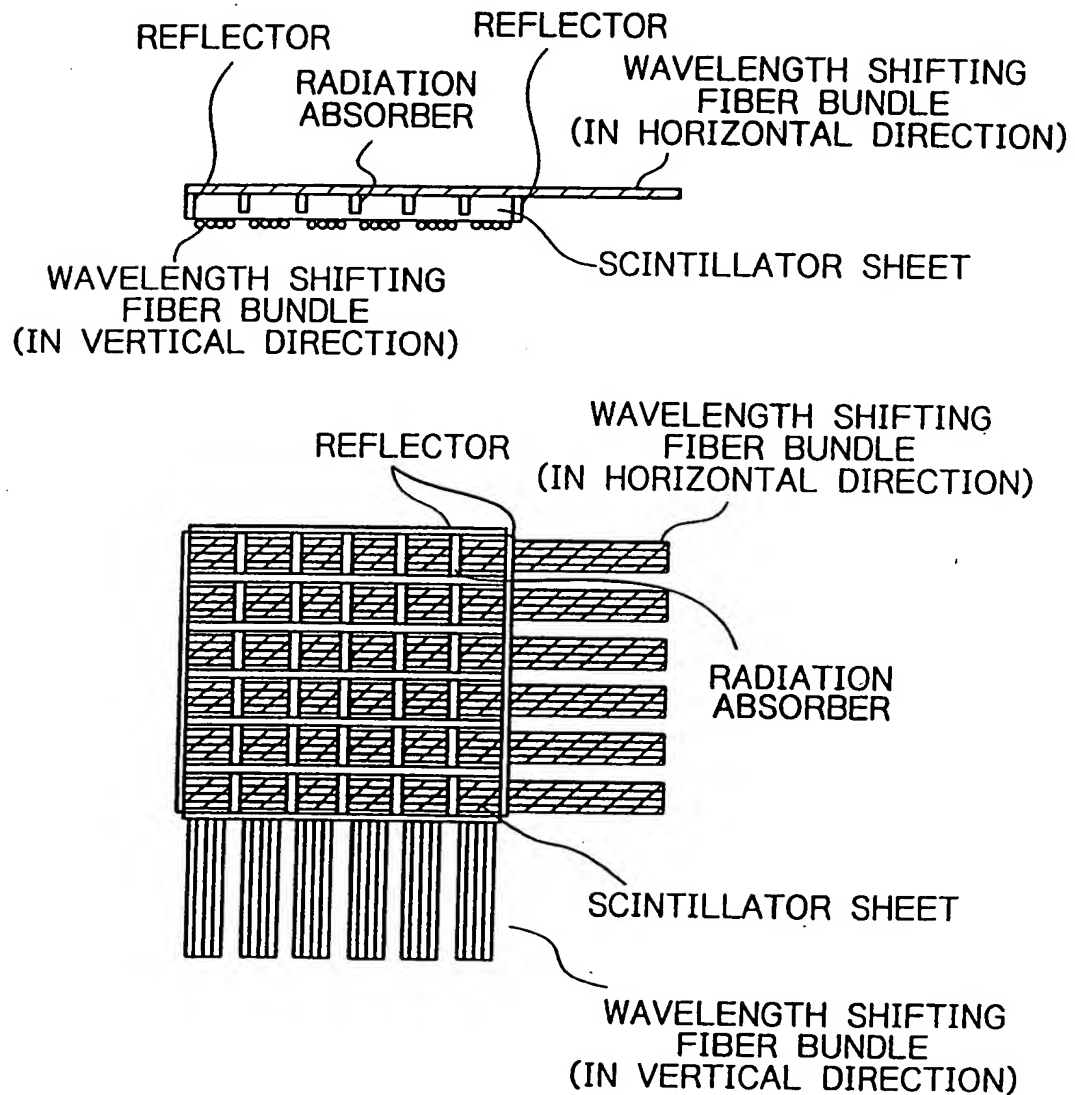


Fig. 4

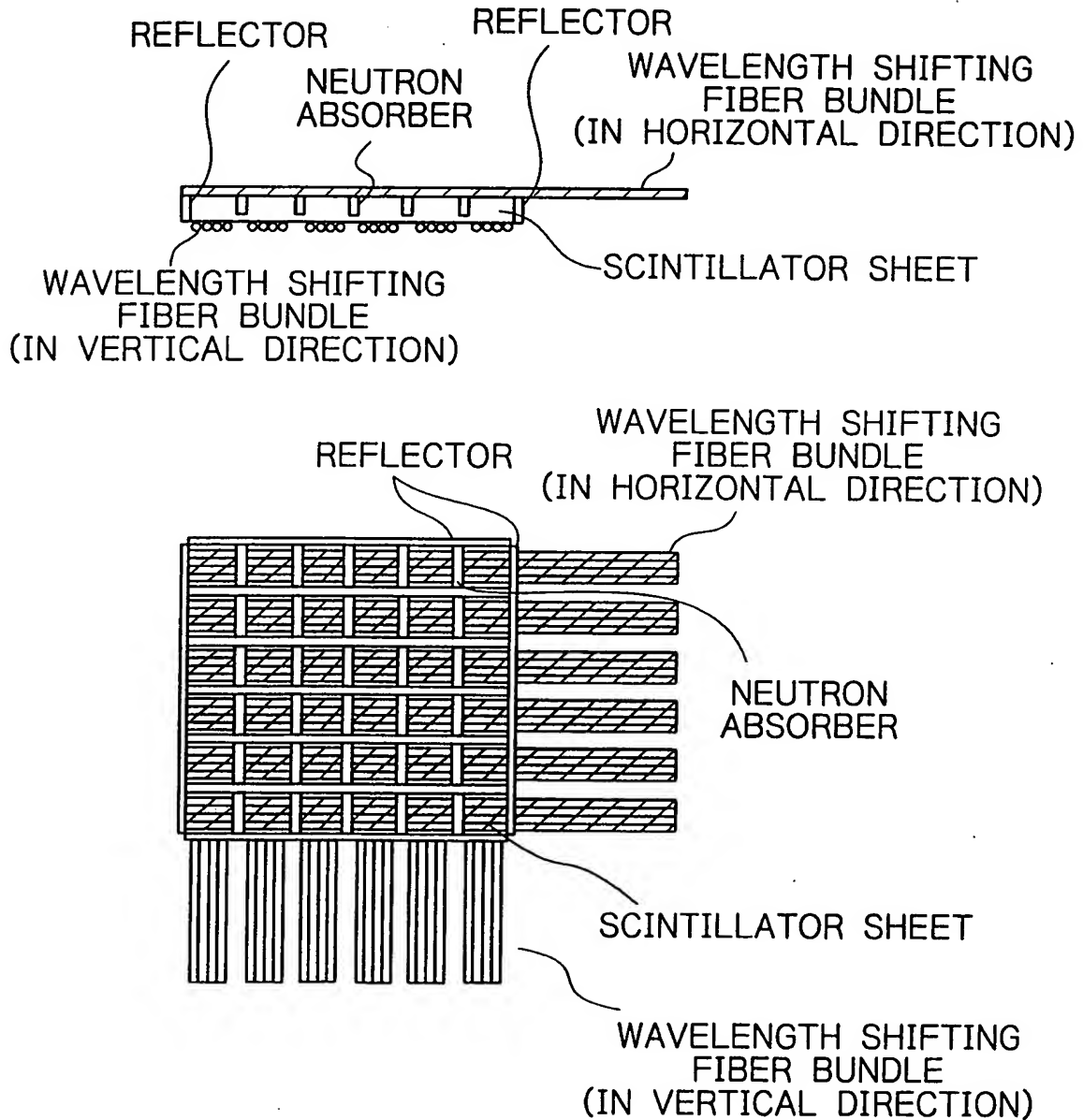


Fig. 5

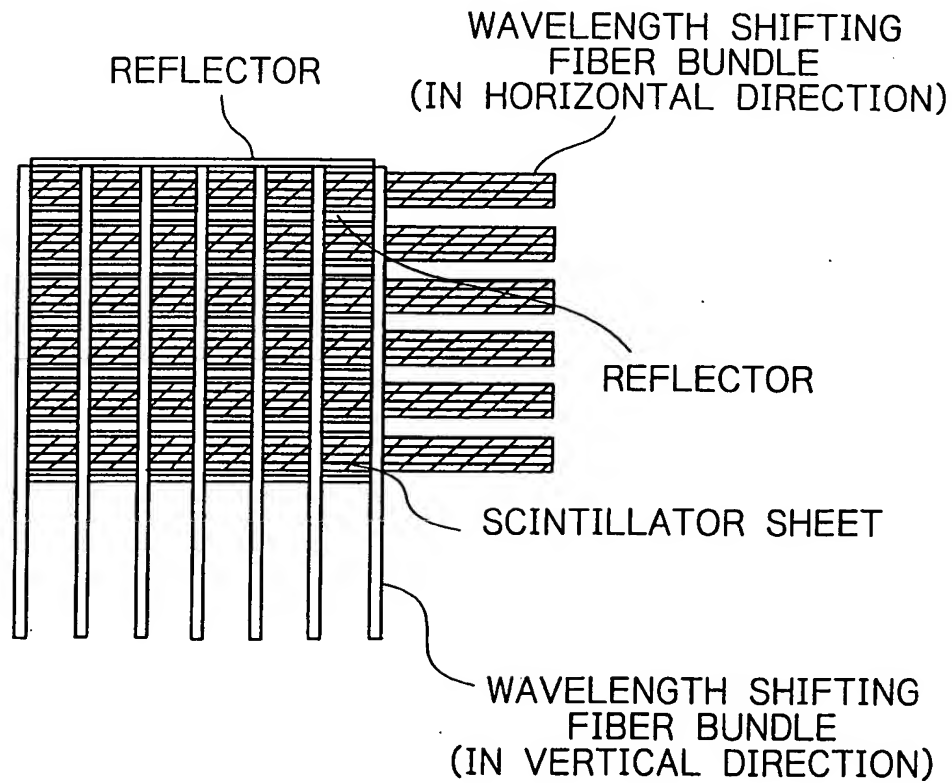
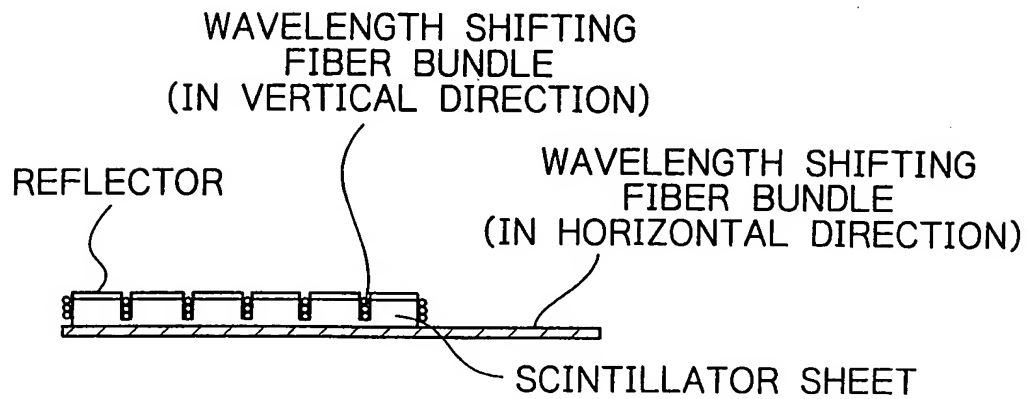


Fig. 6

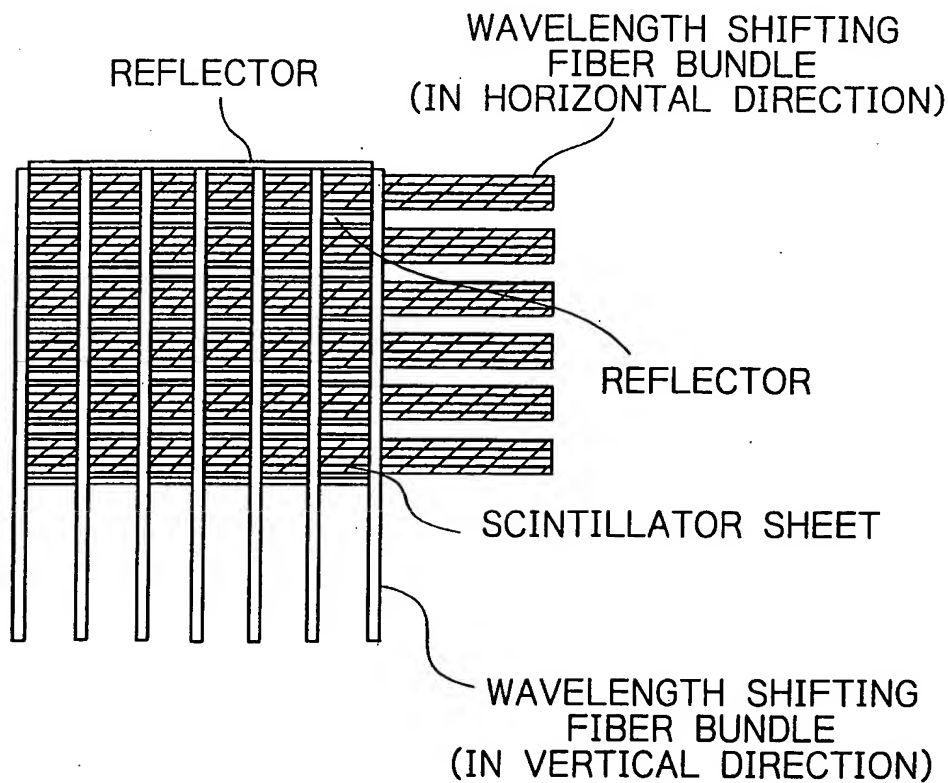
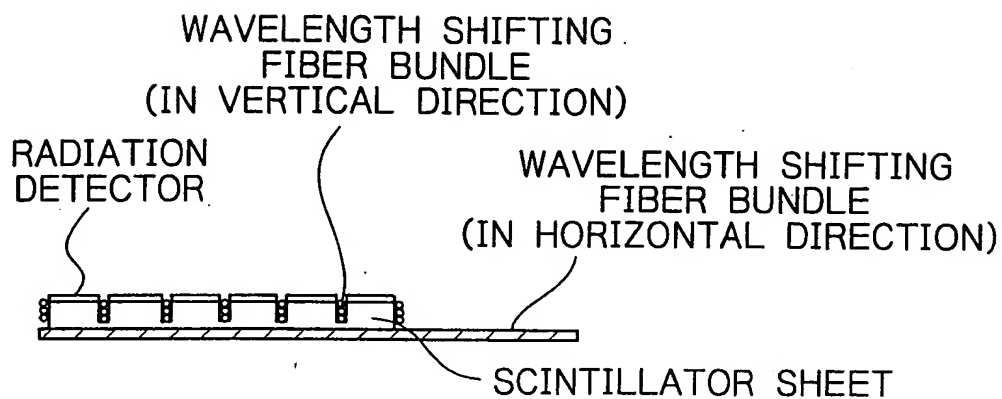
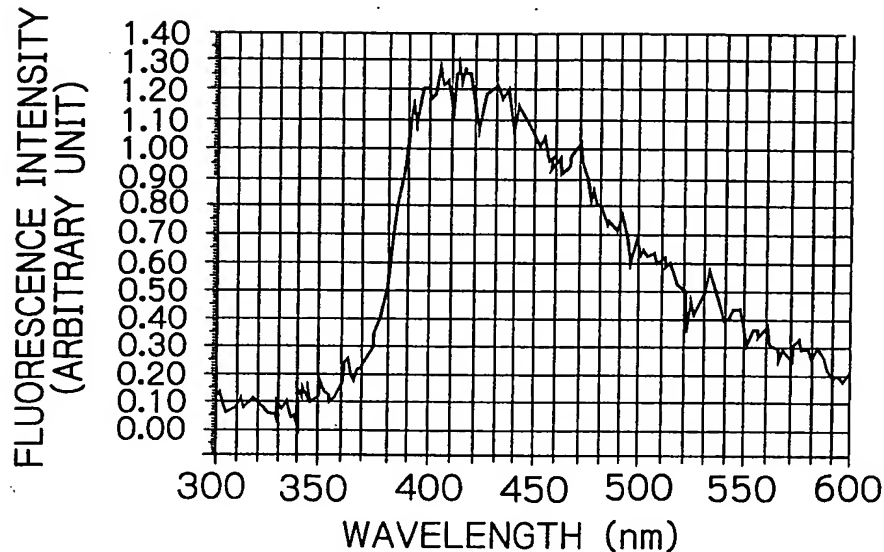
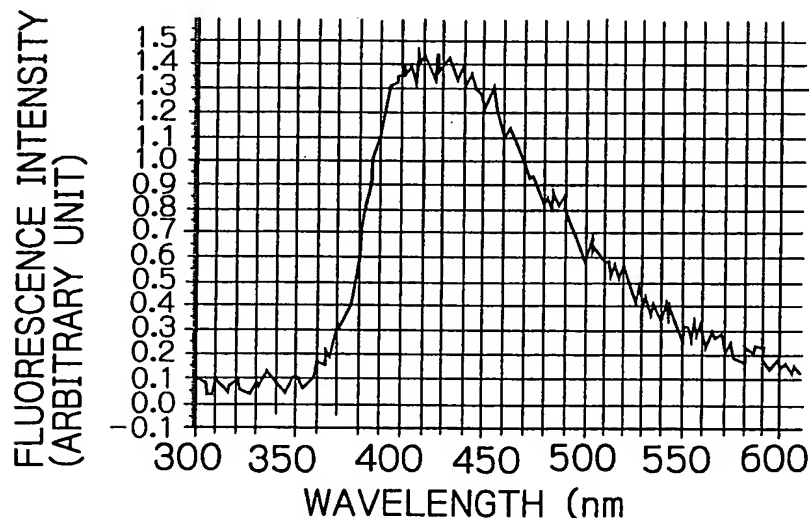


Fig. 7



FLUORESCENCE SPECTRUM OBTAINED WHEN THE
FLUORESCENCE EMITTED FROM PHOSPHOR
Y₂SiO₅:CE UPON α -RAY STIMULATION WAS
DETECTED THROUGH A SCINTILLATOR ON THE
LATERAL SIDE



FLUORESCENCE SPECTRUM (COMPARISON) OBTAINED
WHEN THE FLUORESCENCE EMITTED FROM
PHOSPHOR Y₂SiO₅:CE UPON α -RAY STIMULATIO
WAS DETECTED THROUGH A SCINTILLATOR ON THE
BACK SIDE

Fig. 8

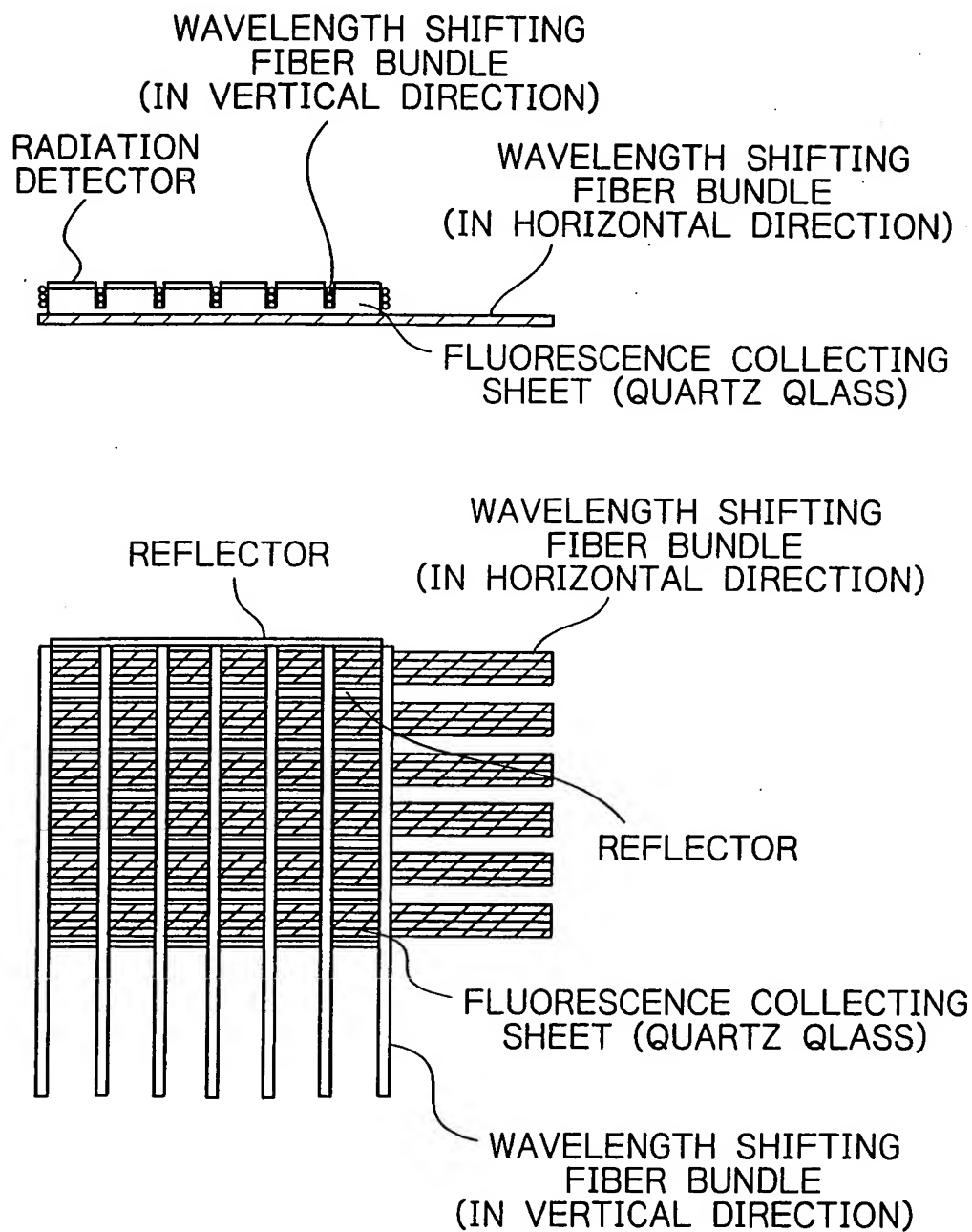
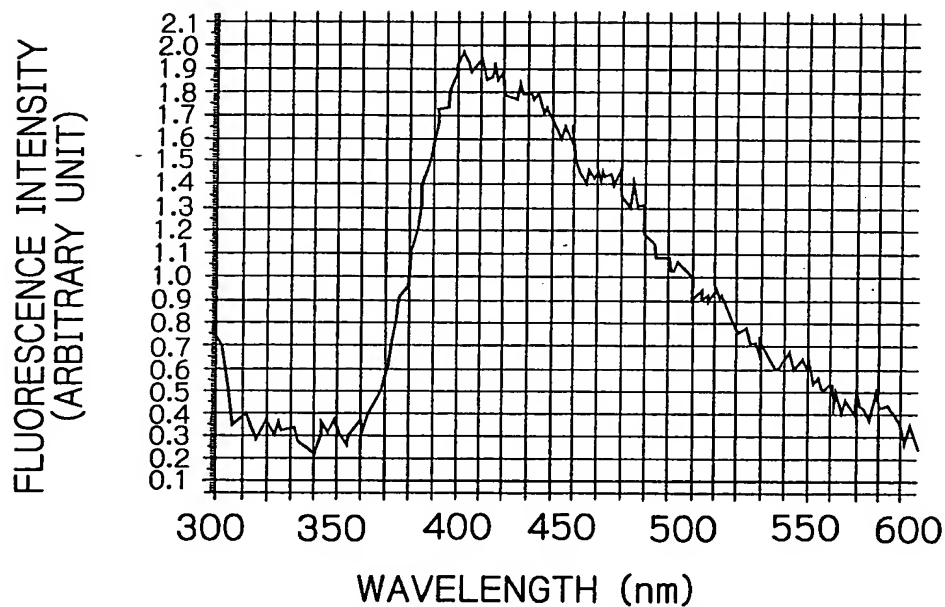


Fig. 9



FLUORESCENCE SPECTRUM OBTAINED WHEN THE
FLUORESCENCE EMITTED FROM PHOSPHOR
 $\text{Y}_2\text{SiO}_5:\text{Ce}$ UPON α -RAY STIMULATION WAS
DETECTED THROUGH A FLUORESCENCE COLLECTOR
QUARTZ GLASS ON THE LATERAL SIDE

Fig. 10

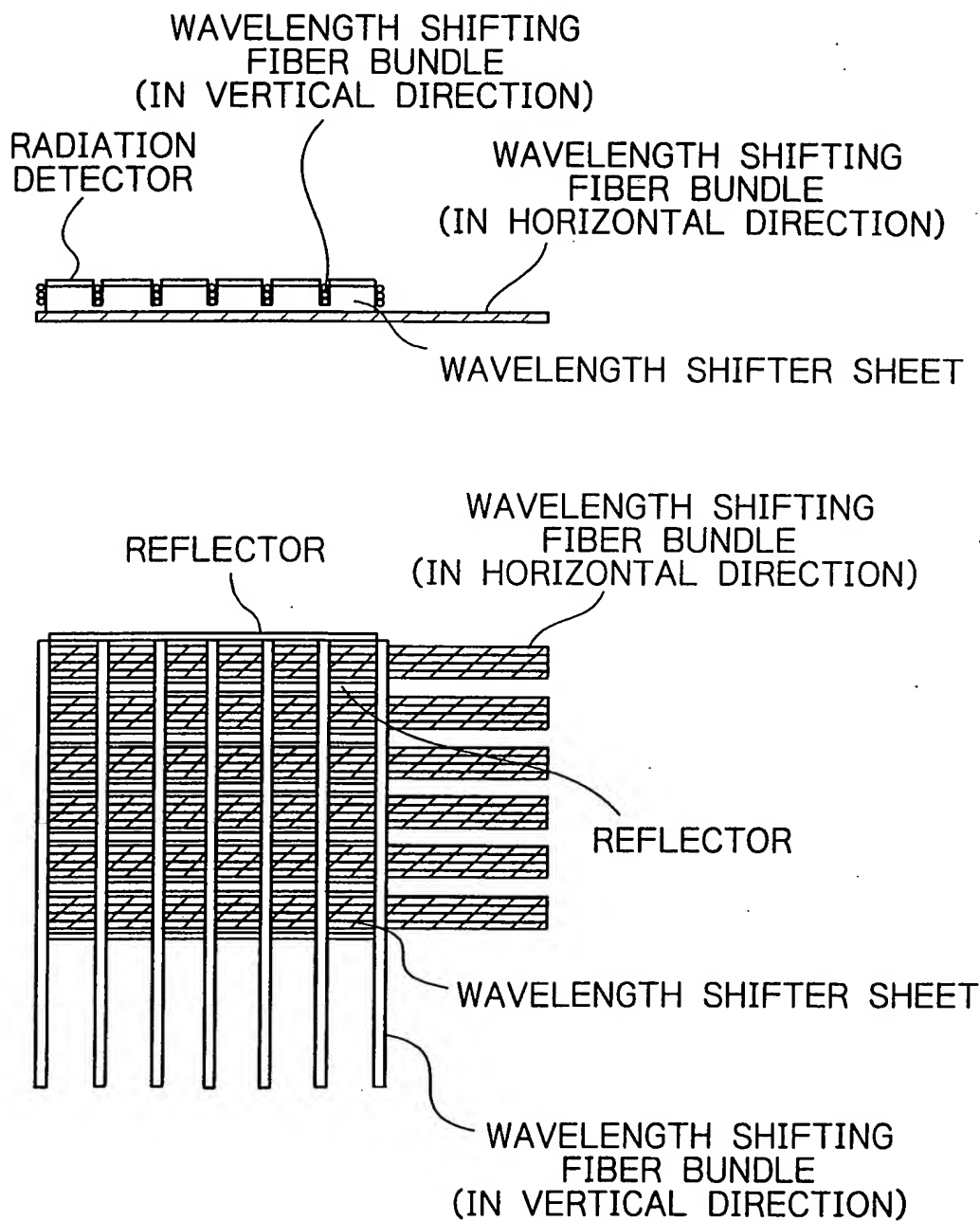
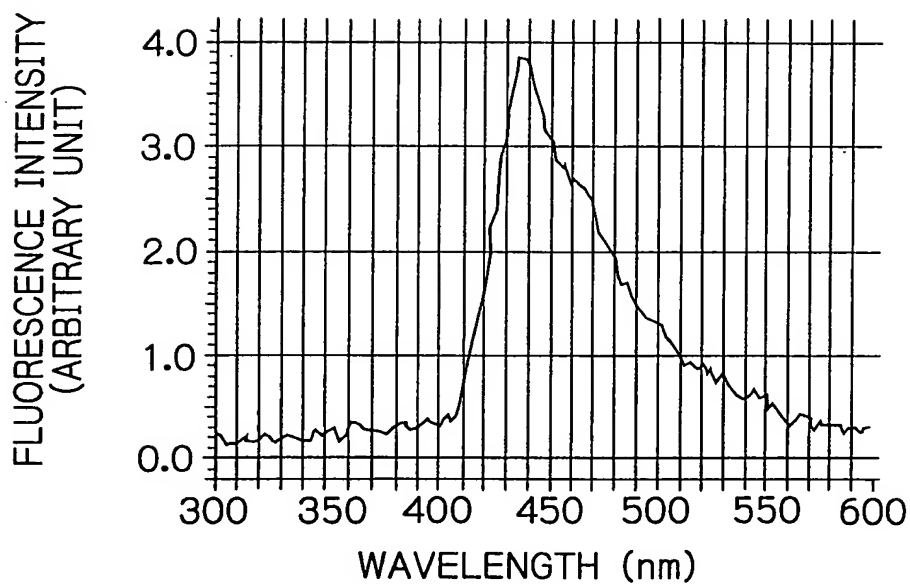


Fig. 11



FLUORESCENCE SPECTRUM OBTAINED WHEN THE
FLUORESCENCE EMITTED FROM PHOSPHOR
Y₂SiO₅:Ce UPON α -RAY STIMULATION WAS
DETECTED THROUGH A FLUORESCENCE COLLECTOR
WAVELENGTH SHIFTER ON THE LATERAL SIDE
(AFTER WAVELENGTH CONVERSION TO 435 NM)

Fig. 12

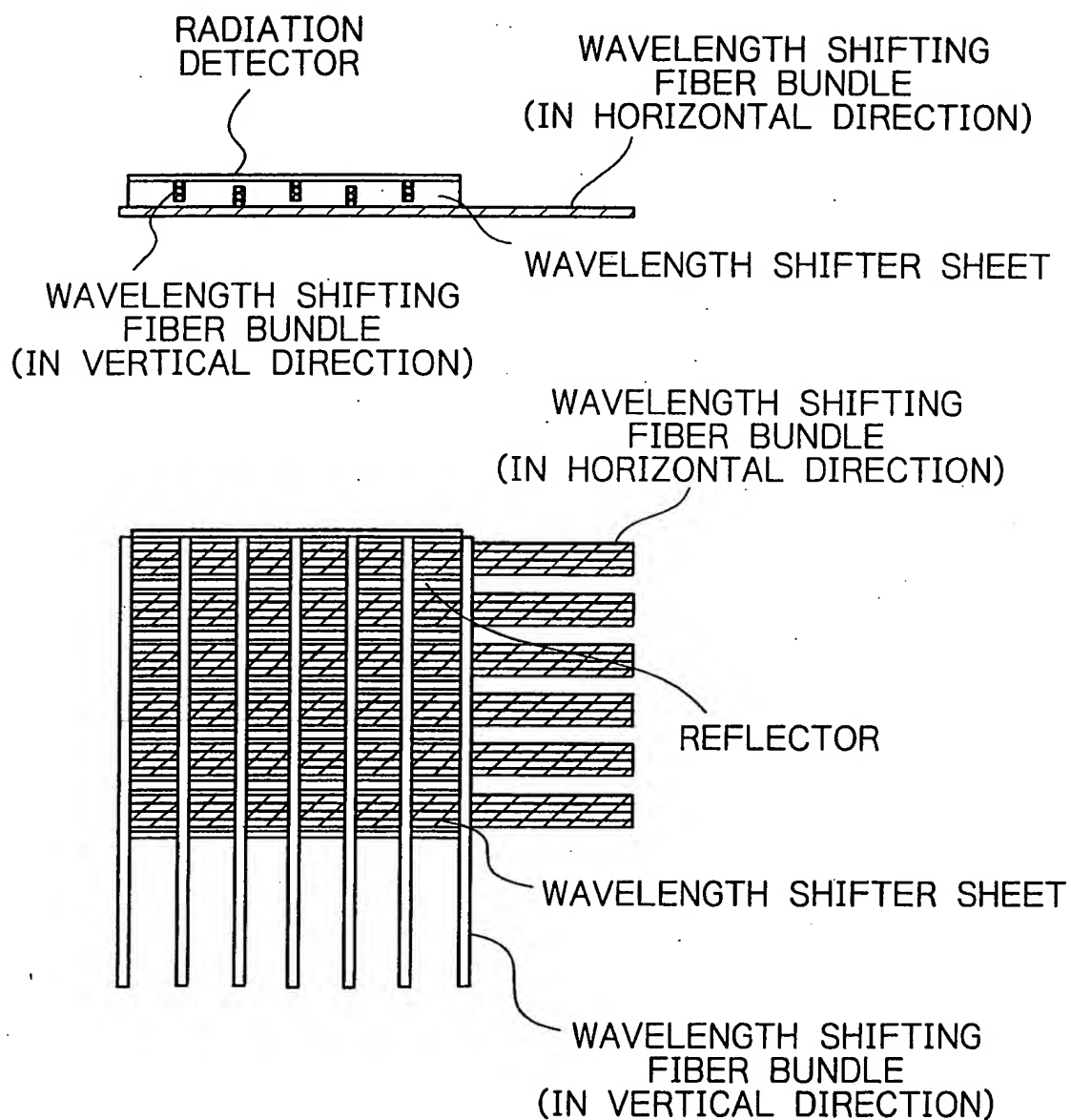


Fig. 13

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

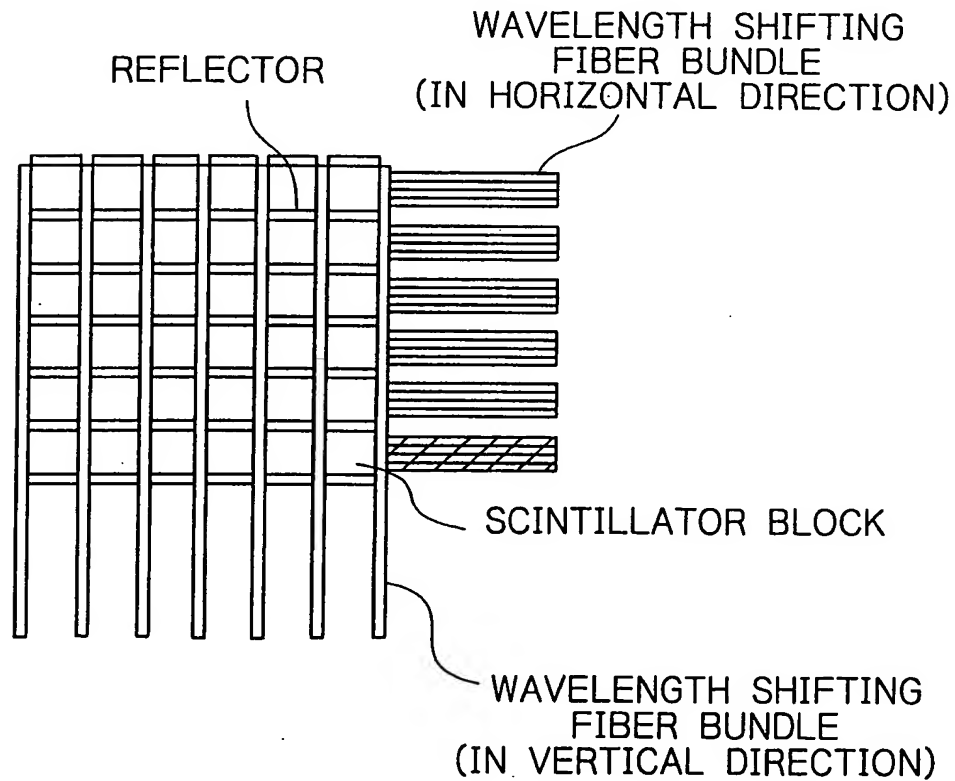
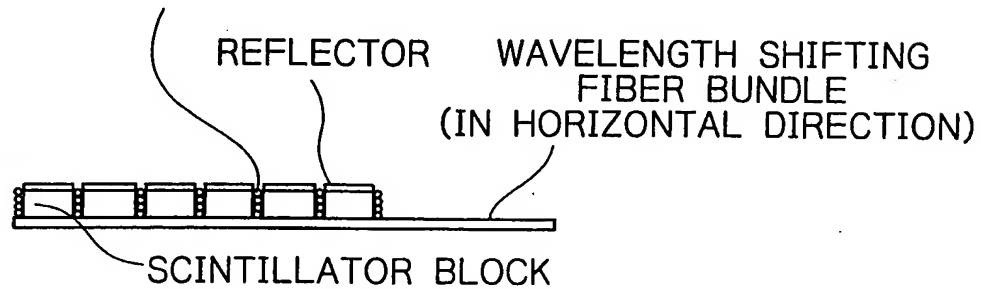


Fig. 14

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)

SCINTILLATOR BLOCK

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)

REFLECTOR

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)

SCINTILLATOR BLOCK

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

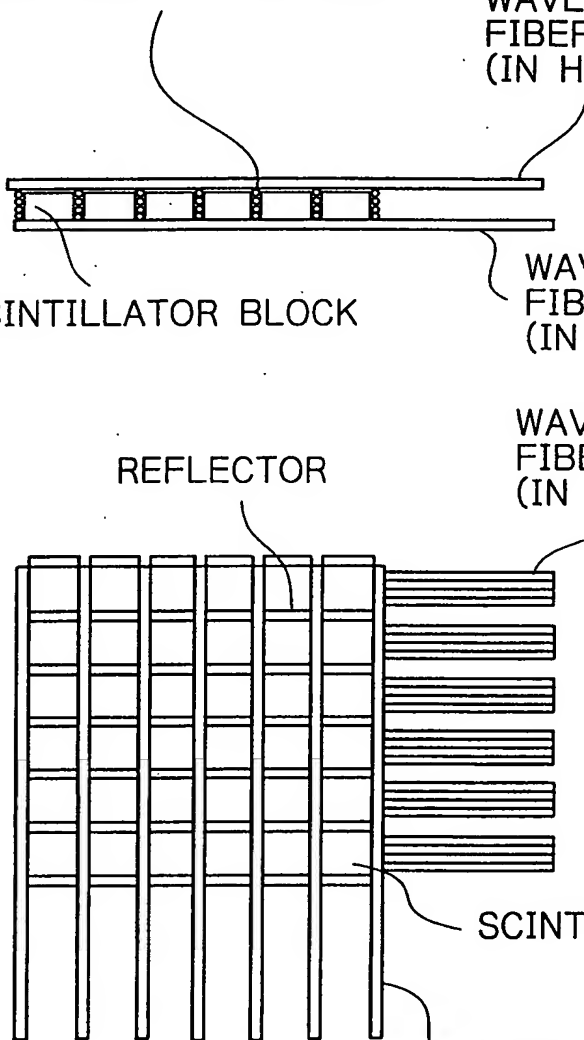
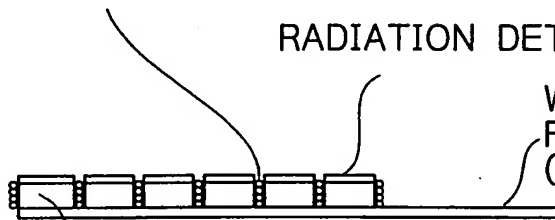


Fig. 15

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

RADIATION DETECTOR

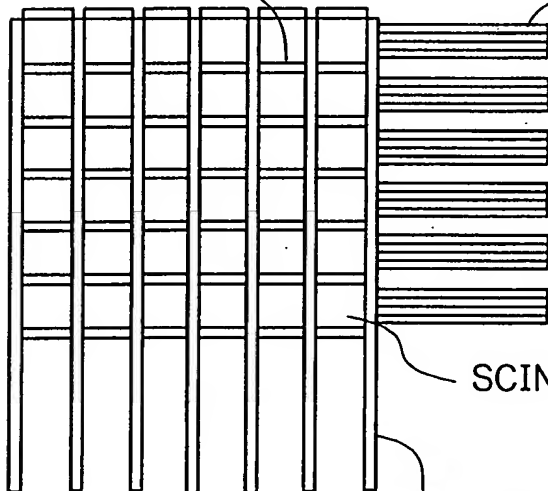
WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)



SCINTILLATOR BLOCK

REFLECTOR

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)



SCINTILLATOR BLOCK

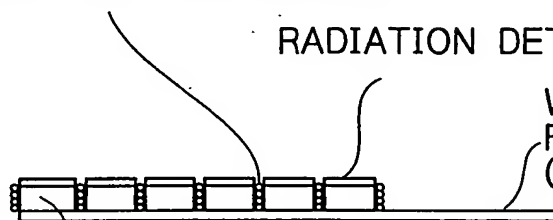
WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

Fig. 16

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

RADIATION DETECTOR

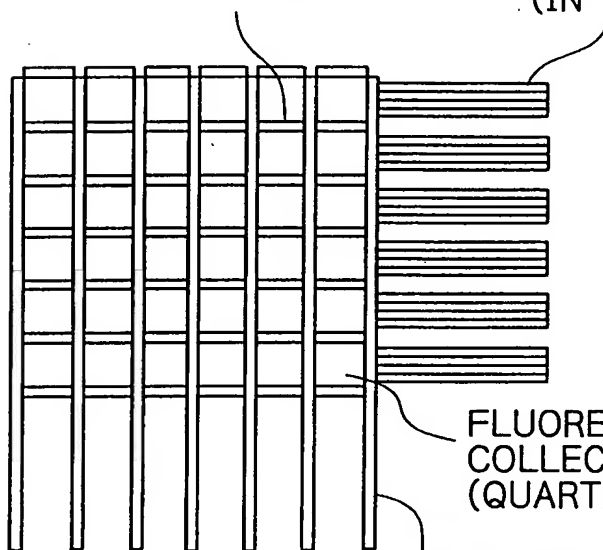
WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)



FLUORESCENCE
COLLECTING BLOCK
(QUARTZ GLASS)

REFLECTOR

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)



FLUORESCENCE
COLLECTING BLOCK
(QUARTZ GLASS)

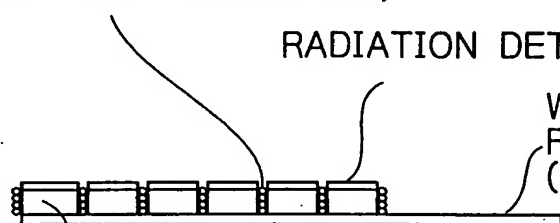
WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

Fig. 17

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

RADIATION DETECTOR

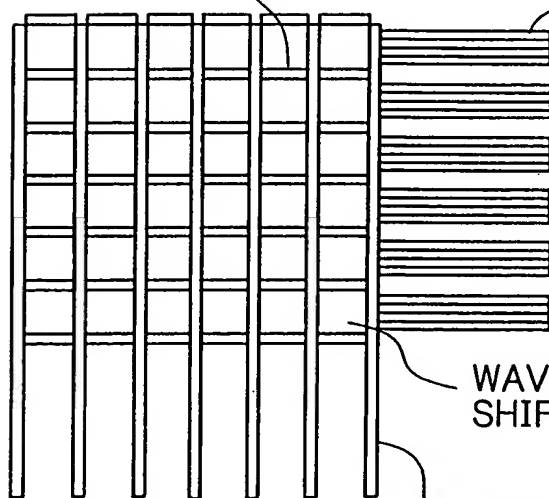
WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)



WAVELENGTH
SHIFTER BLOCK

REFLECTOR

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN HORIZONTAL DIRECTION)



WAVELENGTH
SHIFTER BLOCK

WAVELENGTH SHIFTING
FIBER BUNDLE
(IN VERTICAL DIRECTION)

Fig. 18

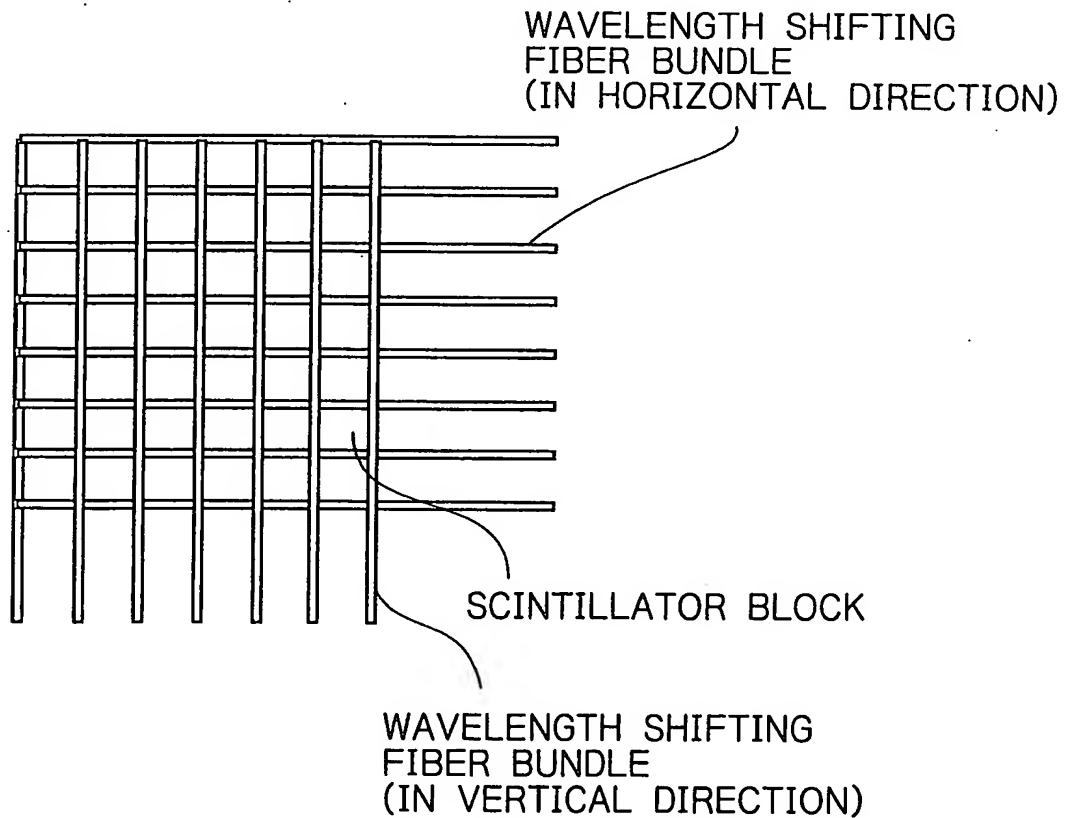
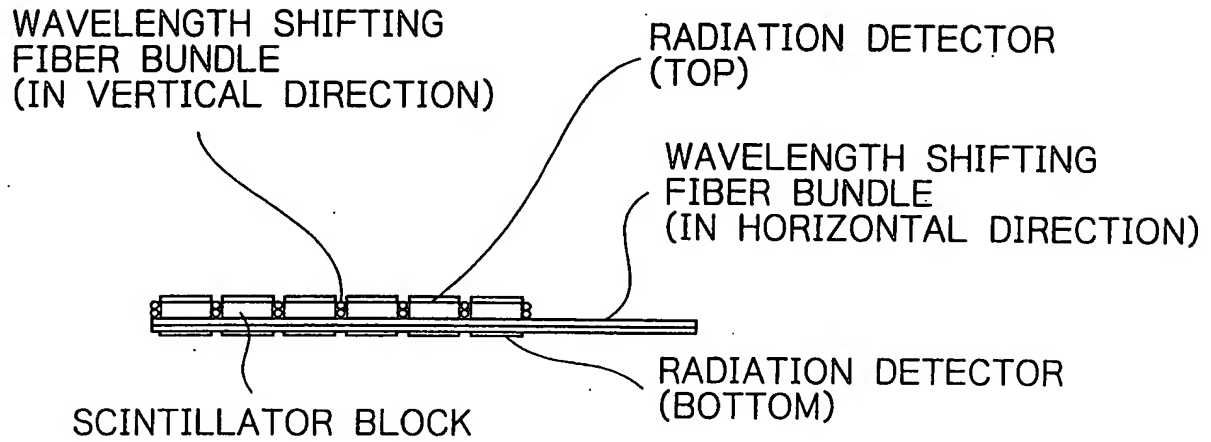


Fig. 19

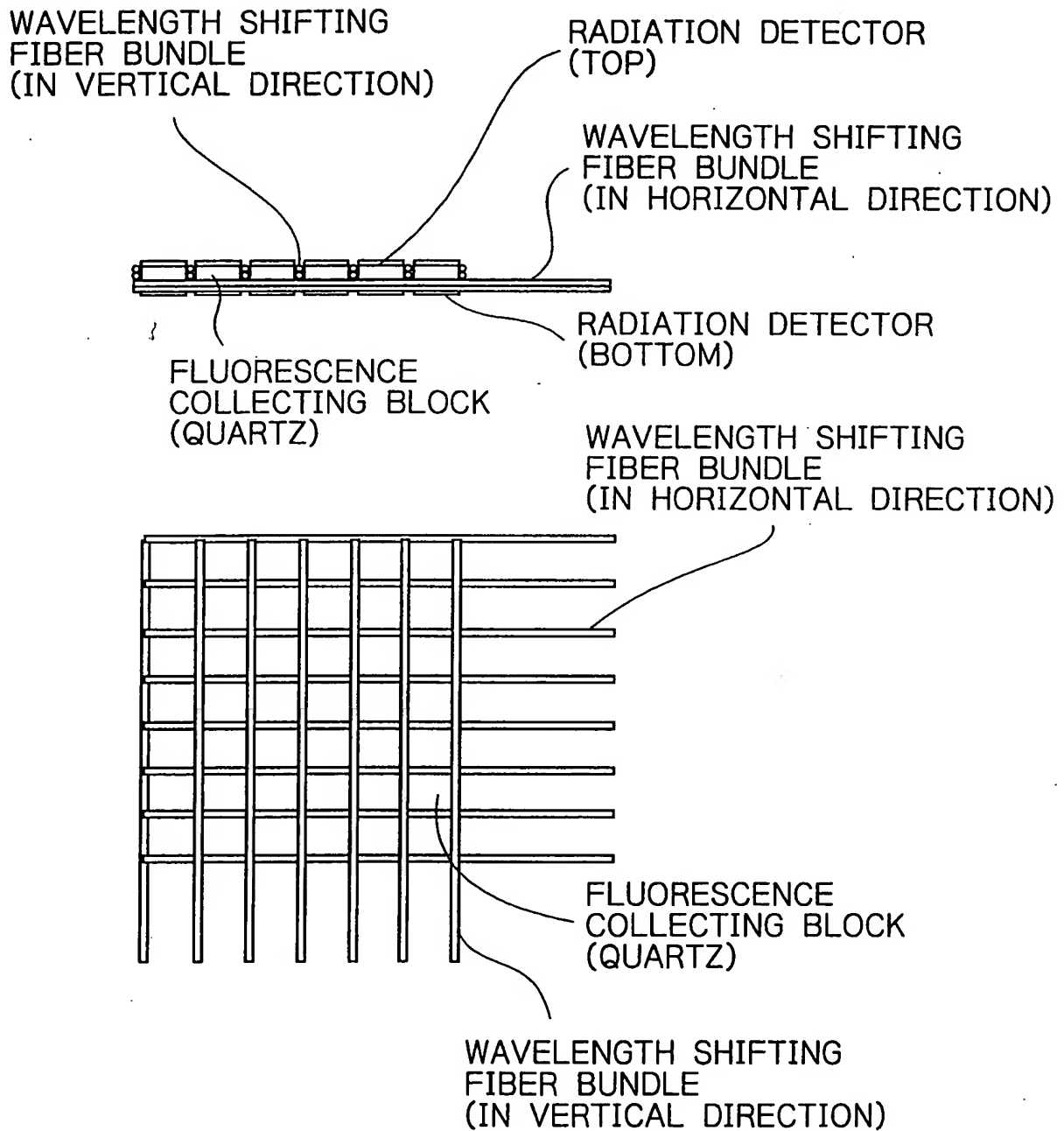


Fig. 20

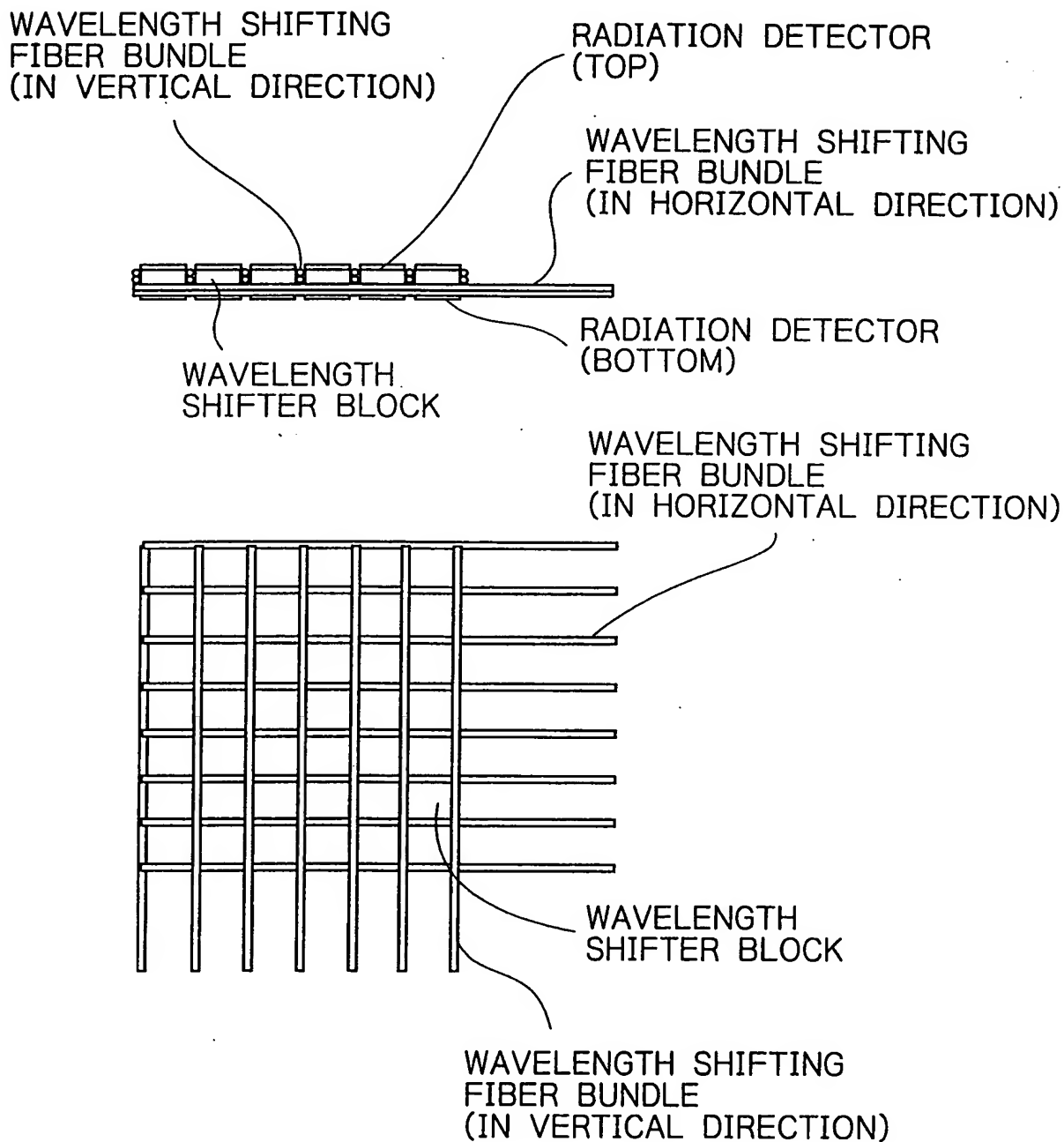


Fig. 21

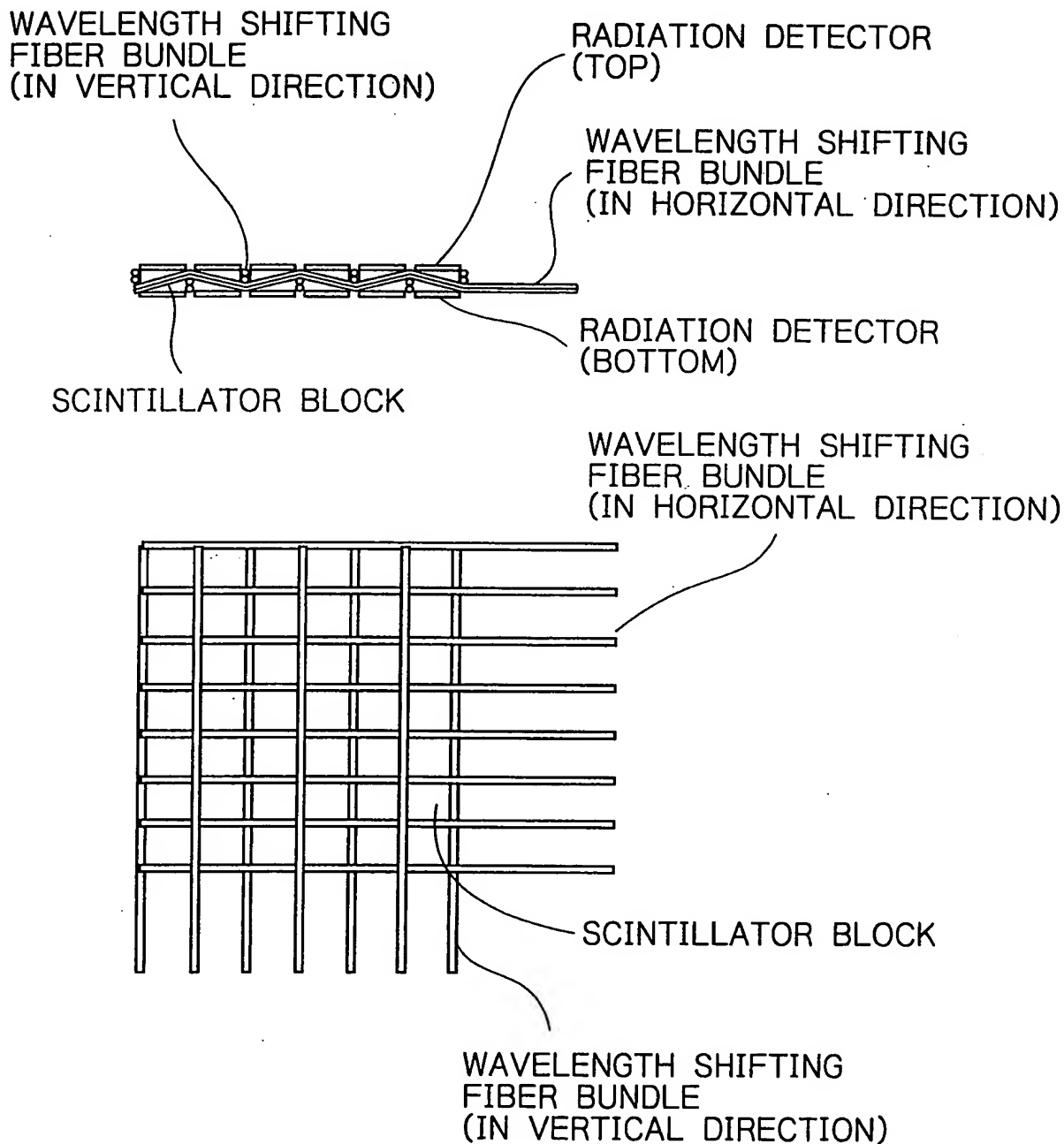


Fig. 22

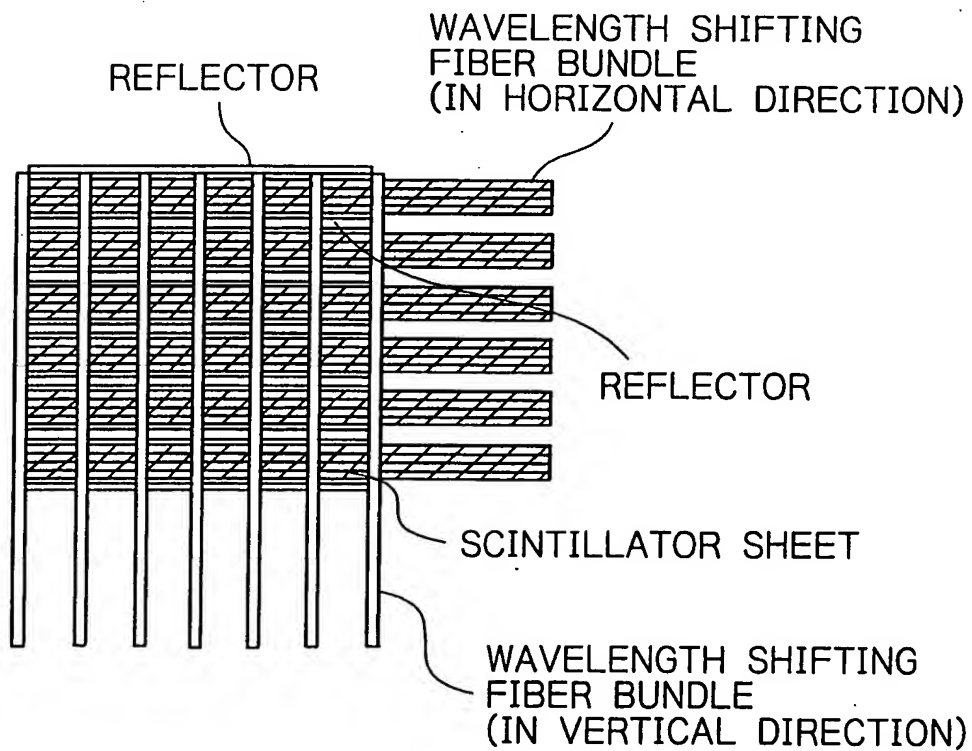
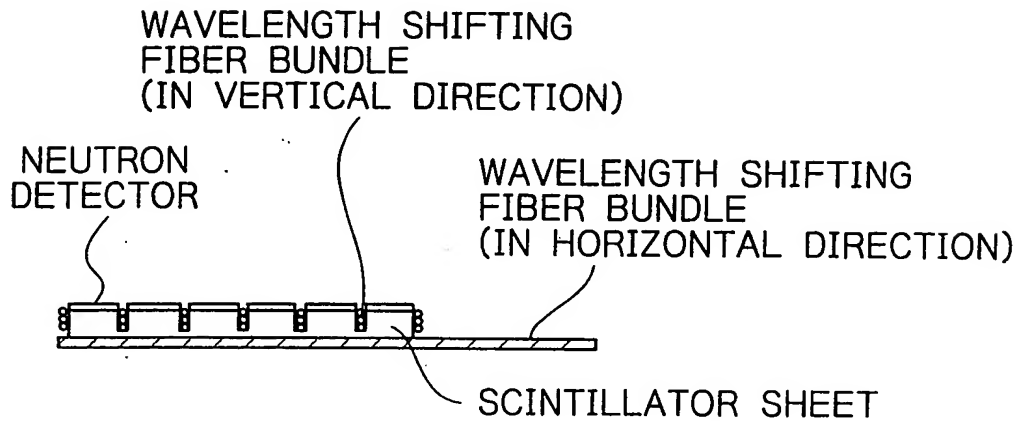


Fig. 23

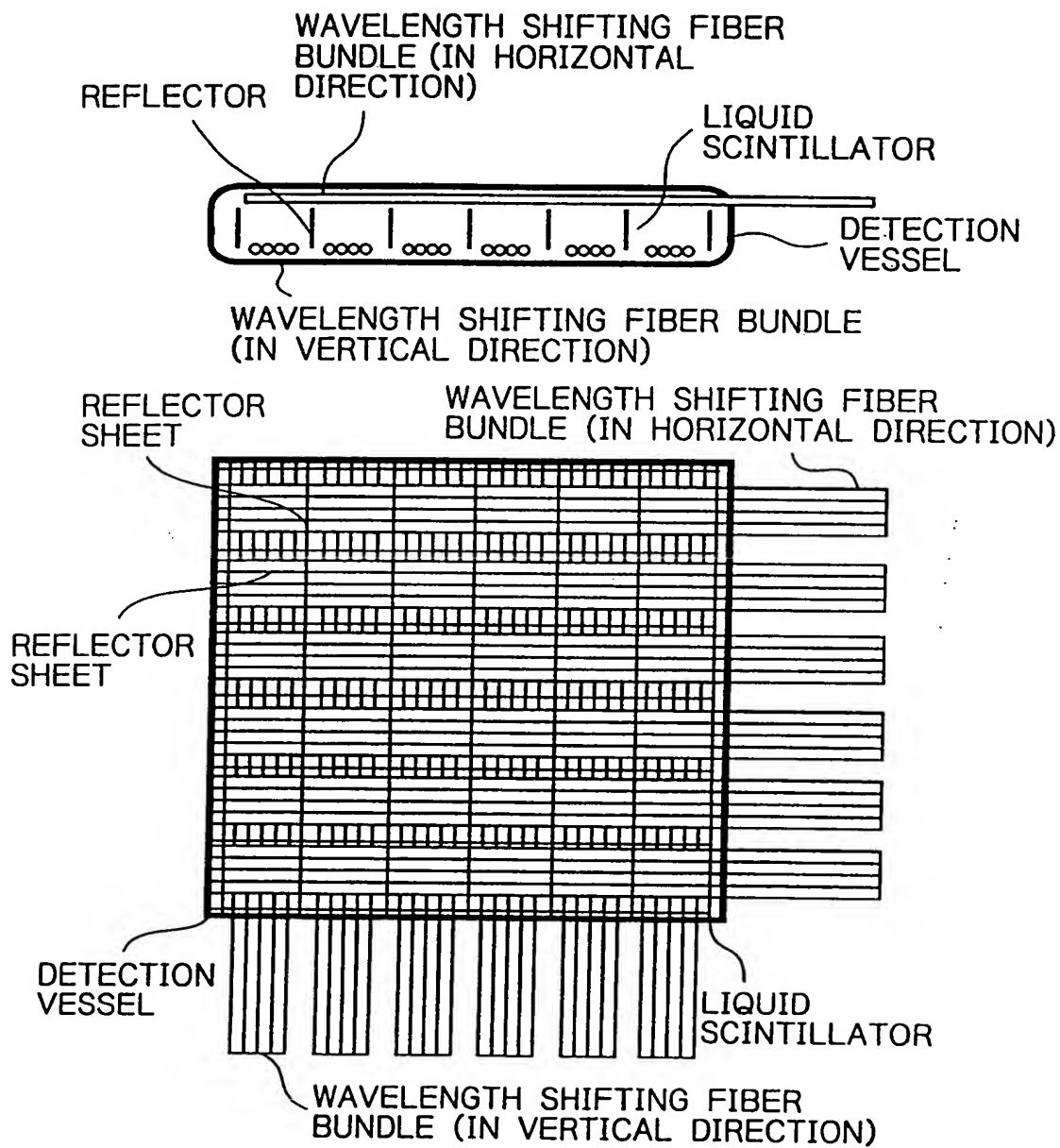


Fig. 24

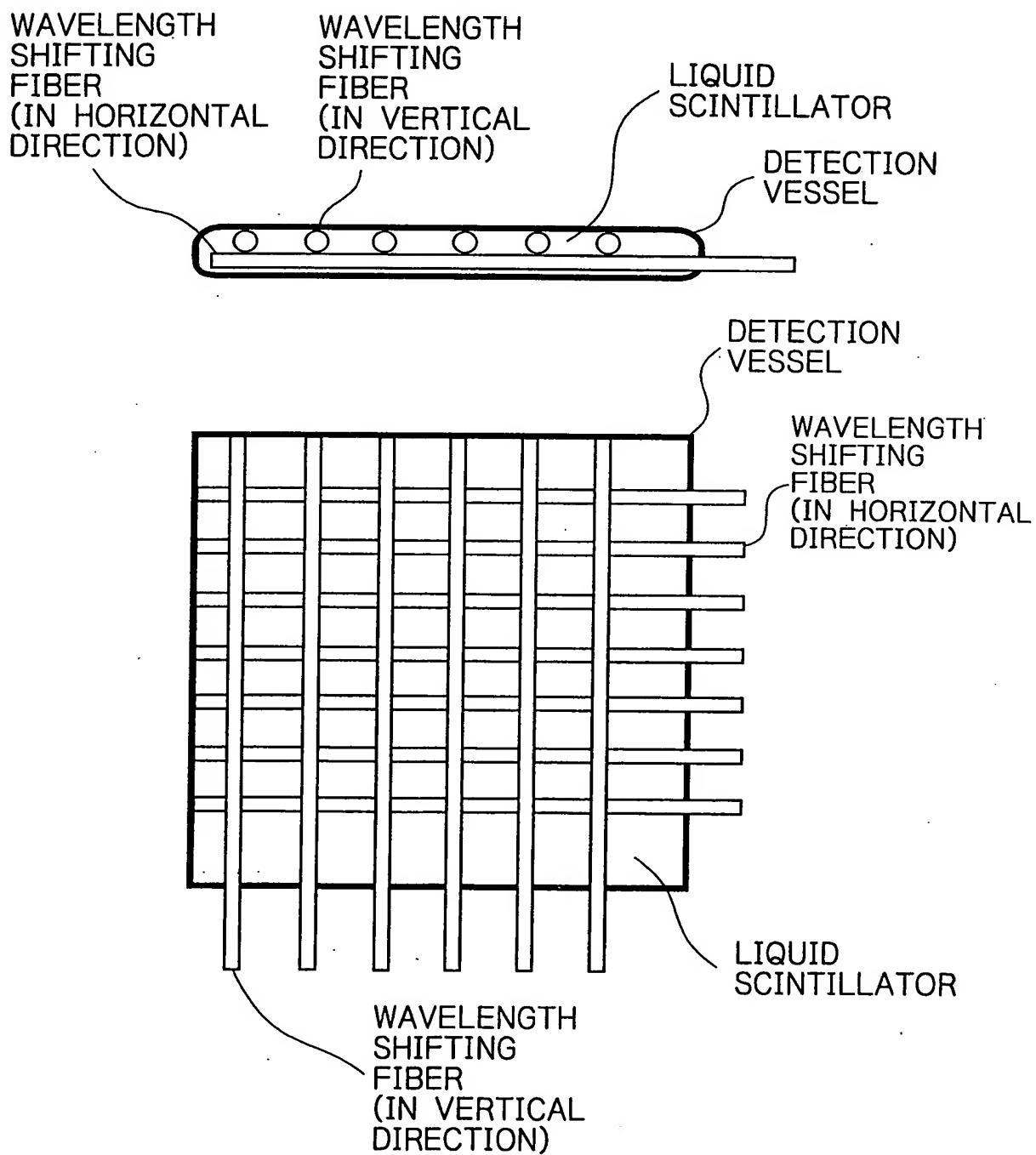


Fig. 25

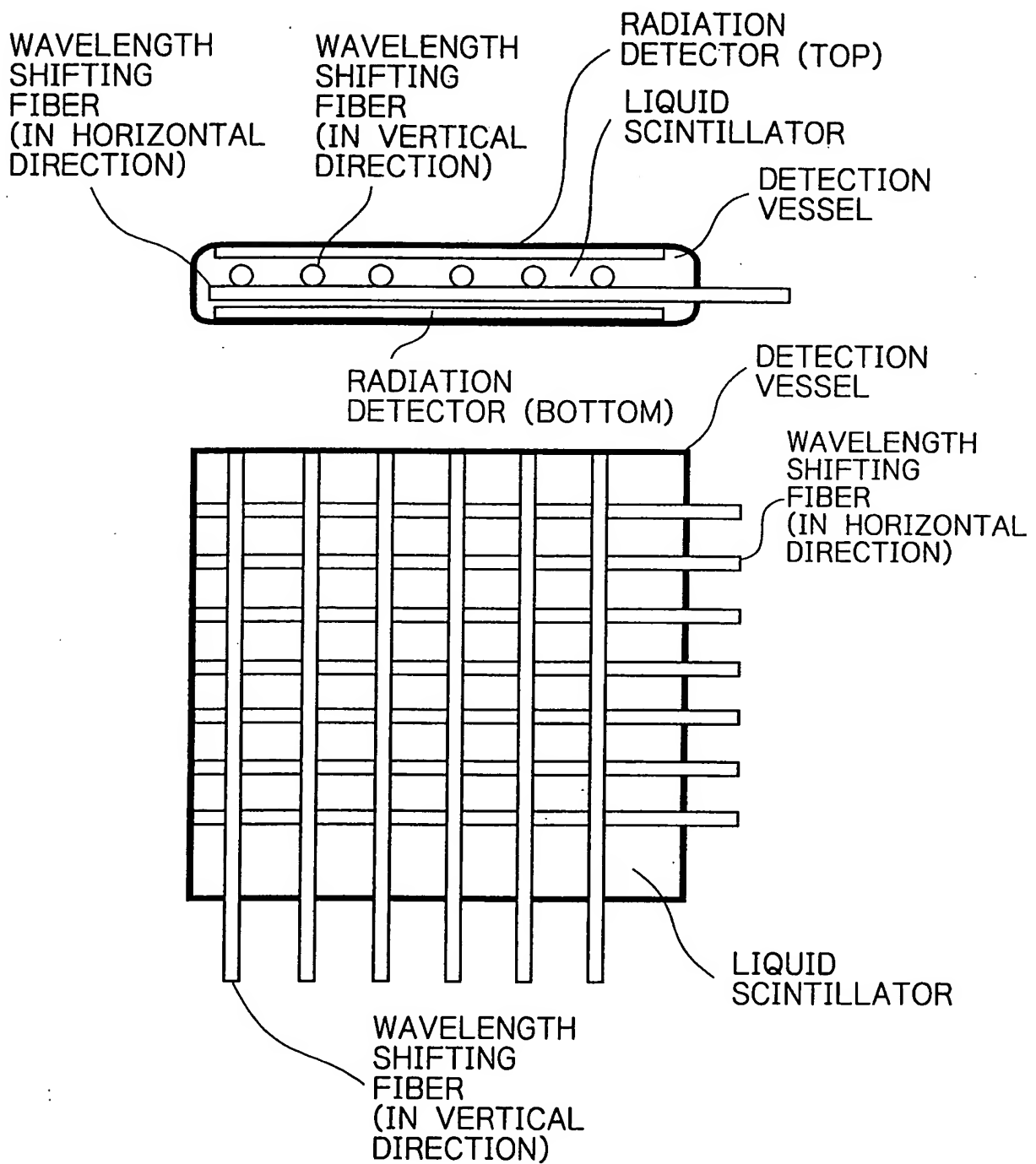


Fig. 26

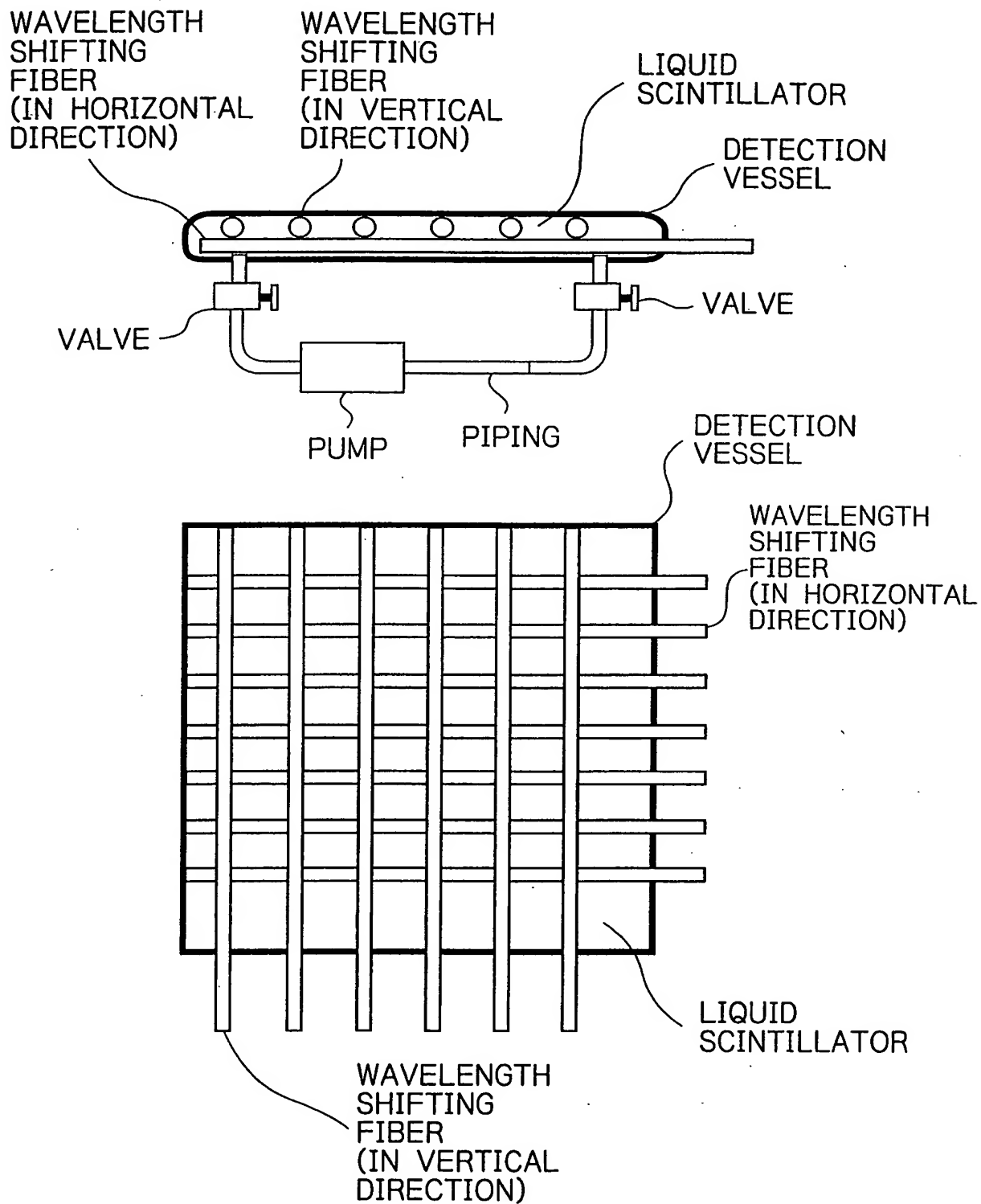


Fig. 27

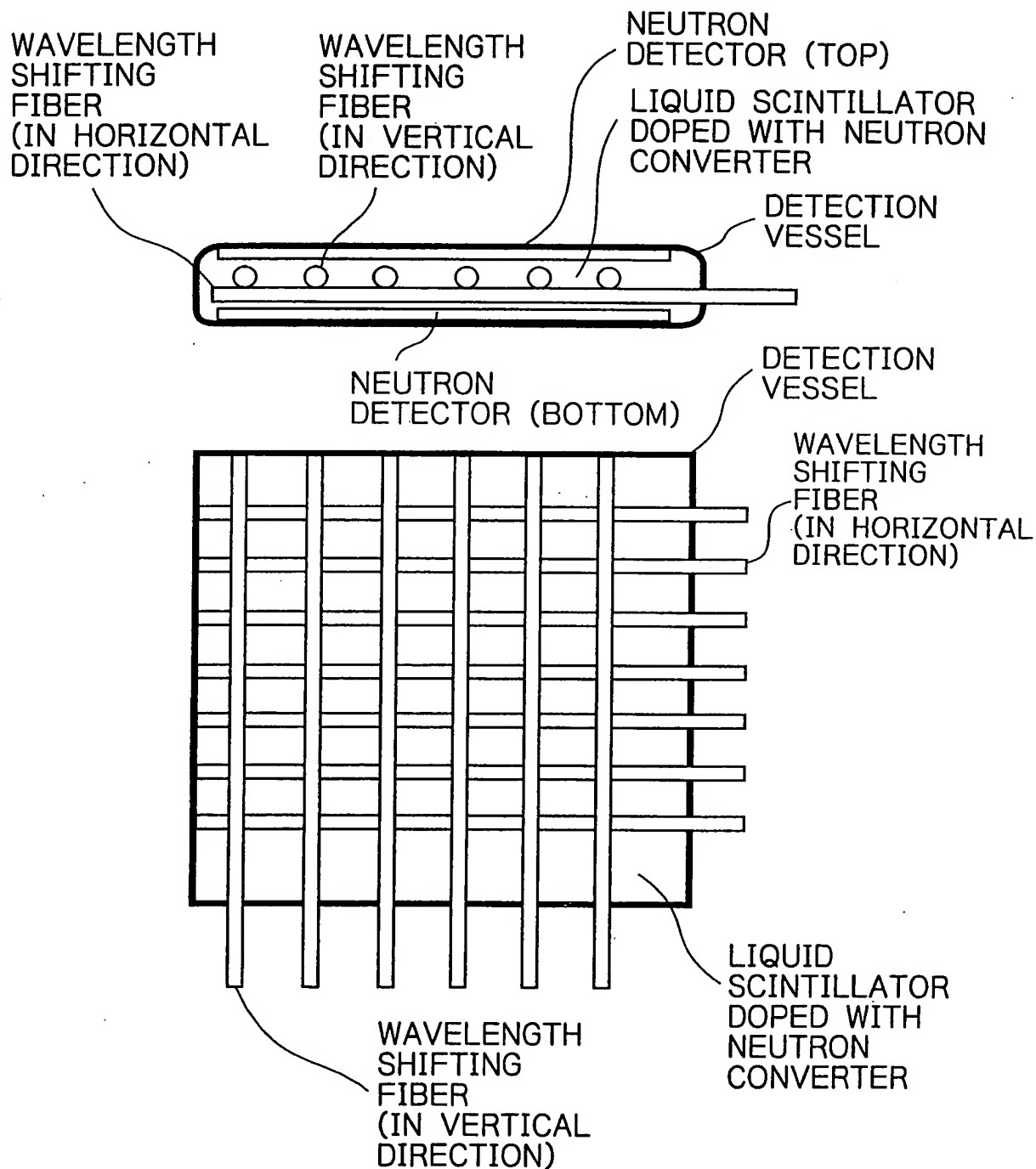


Fig. 28

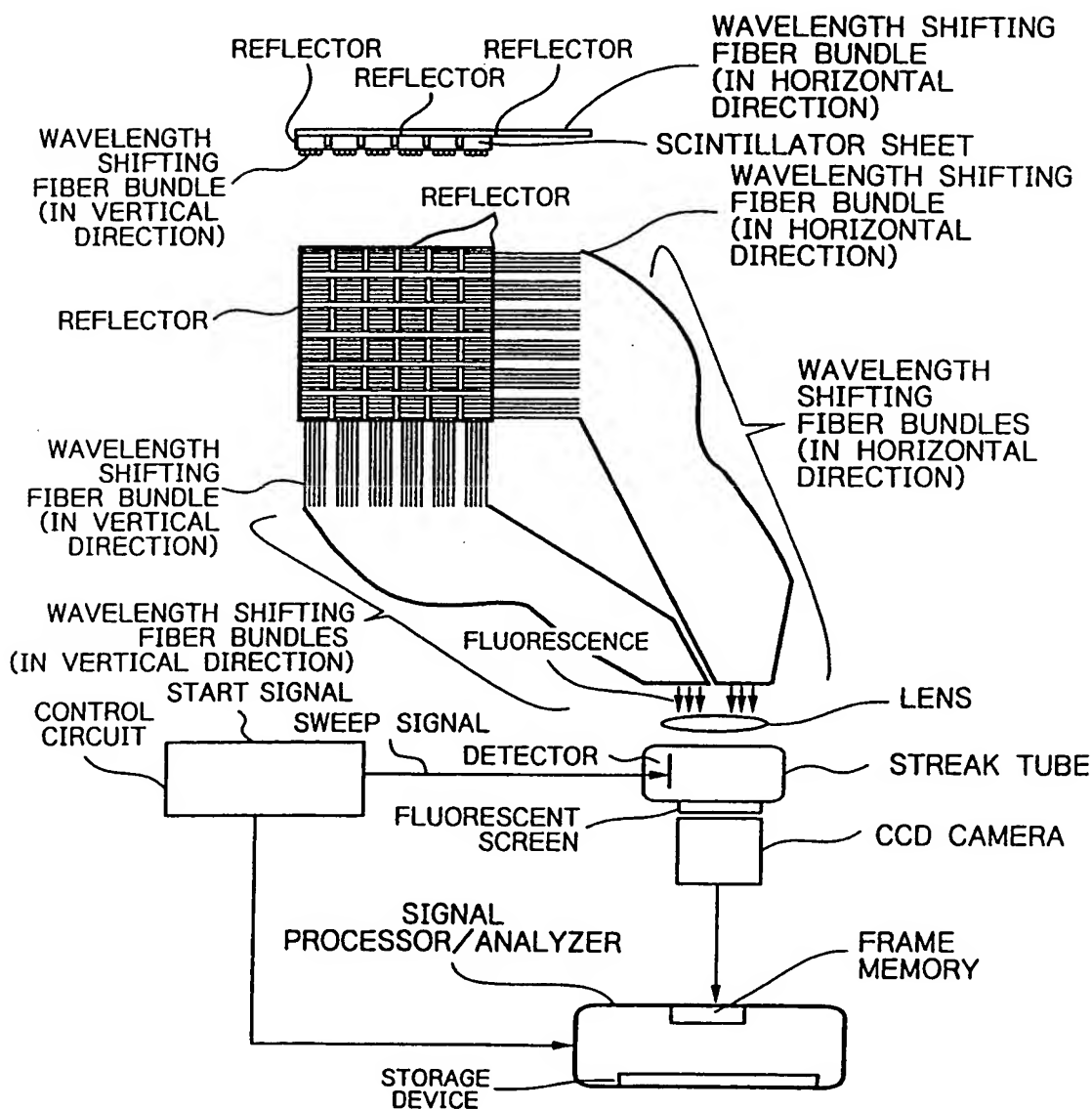


Fig. 29

GENERATION OF FLUORESCENCE

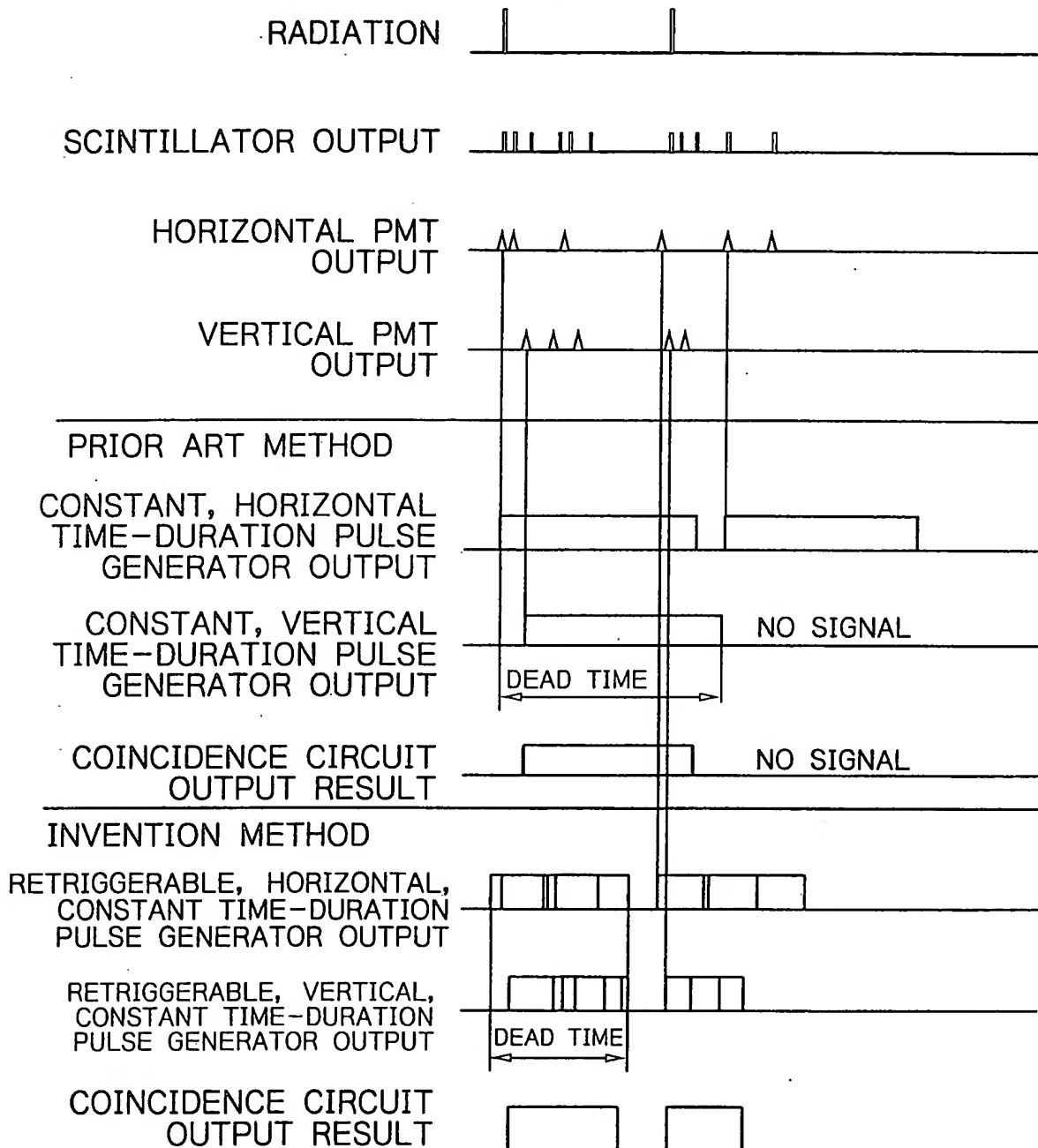


Fig. 30

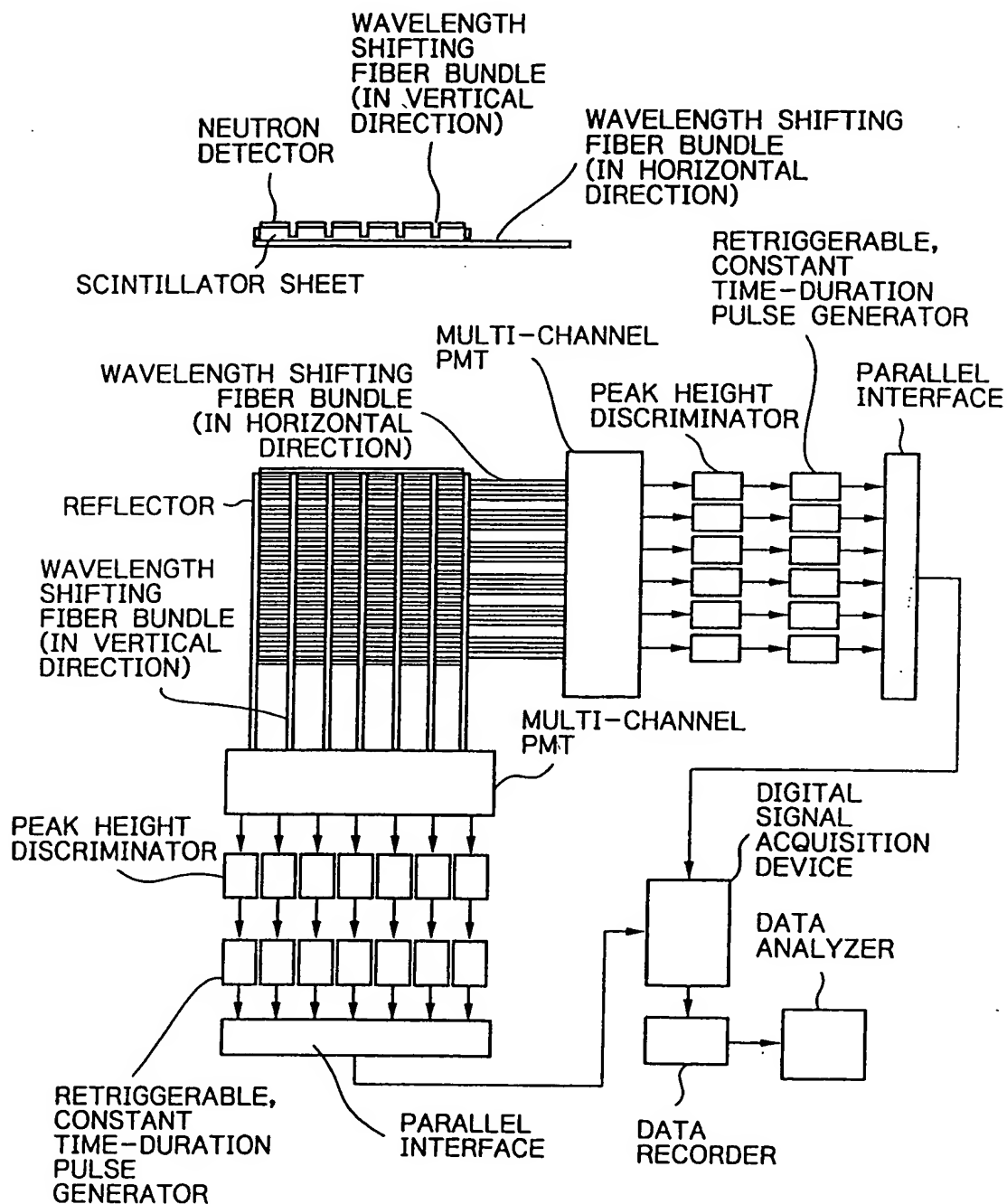


Fig. 31

PRIOR ART

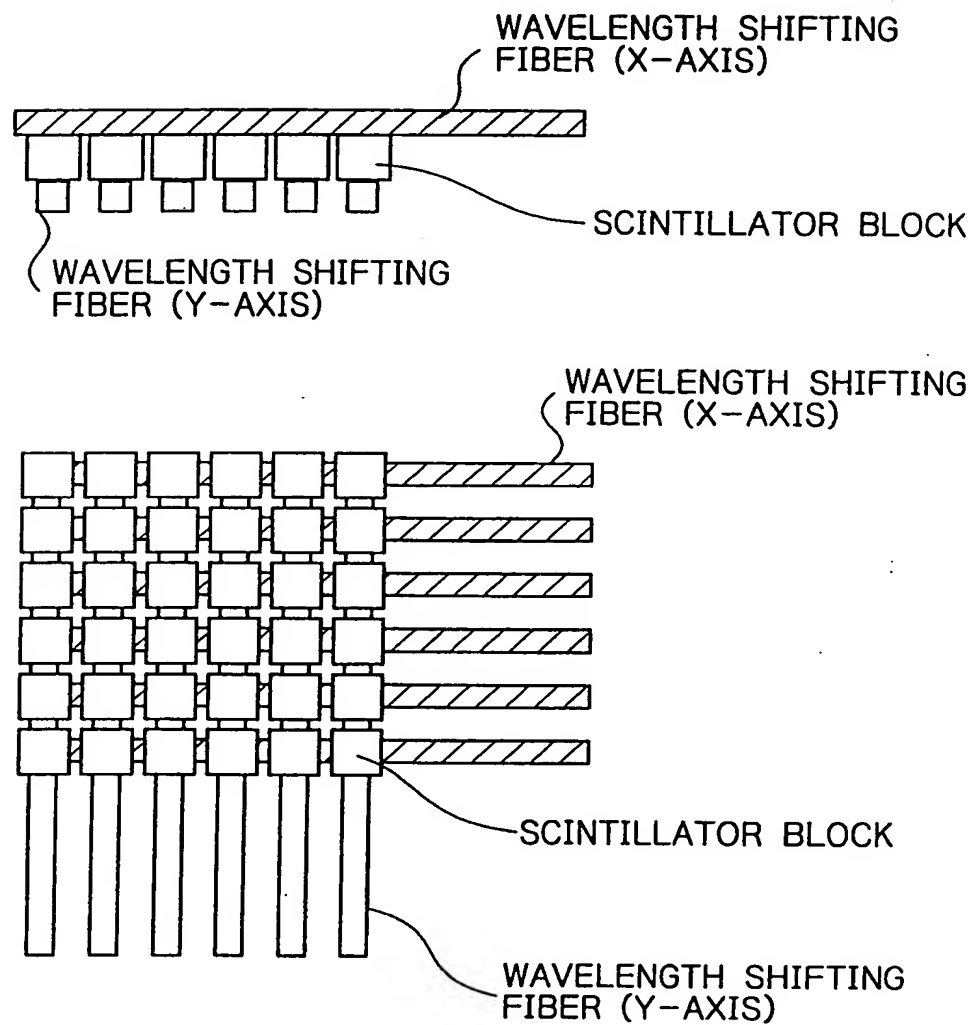


Fig. 32

PRIOR ART

